STIC Search Report
EIC 3600

STIC Database Tracking Number: 145399

To:	From:
To: Jason Bellinger Location: PK5 6D01 Art Unit : 3617 Thursday, March 24, 2005 Case Serial Number: 10/723559	From: Karen Lehman Location: EIC 3600 PK5-Suite 804 Phone: 306-5783 karen.lehman@uspto.gov

Search Notes

```
? SHOW FILES;DS
File  15:ABI/Inform(R) 1971-2005/Mar 23
         (c) 2005 ProQuest Info&Learning
File   9:Business & Industry(R) Jul/1994-2005/Mar 23
         (c) 2005  The Gale Group
File 275:Gale Group Computer DB(TM) 1983-2005/Mar 24
         (c) 2005 The Gale Group
File 621:Gale Group New Prod.Annou.(R) 1985-2005/Mar 24
         (c) 2005 The Gale Group
File 636:Gale Group Newsletter DB(TM) 1987-2005/Mar 24
         (c) 2005 The Gale Group
File  16:Gale Group PROMT(R) 1990-2005/Mar 24
         (c) 2005 The Gale Group
File 160:Gale Group PROMT(R) 1972-1989
         (c) 1999 The Gale Group
File 148:Gale Group Trade & Industry DB 1976-2005/Mar 24
         (c)2005 The Gale Group

Set     Items   Description
S1    2155592   LUMINESC? OR GLOW? OR LIGHT? OR FLOURESCENT?
S2      38192   AXLE?
S3     634053   WHEEL? OR TIRE OR TYRE OR TIRES
S4     189318   POWER(2N)(SUPPLY OR SOURCE)
S5     342429   (FIBER OR FIBRE)(2N)OPTIC?
S6    1609705   CABLE OR CABLES OR CORD OR CORDS
S7      19268   S1(6N)(S2 OR S3)
S8        260   S1(6N)S2(6N)S3
S9         99   S8 NOT LIGHT
S10         0   S9(2S)S5(7N)(S5 OR S6)
S11         0   S9(2S)S4(7N)(S5 OR S6)
S12         2   S8(10N)(S5 OR S6)
S13    148271   LUMINESC? OR GLOW? OR FLOURESCENT? OR ILLUMINAT?
S14        31   S13(7N)(S2 OR S3)(7N)(S5 OR S6)
S15   3538308   14
S16   3798760   PD=>20031126
S17   3189836   14 NOT PD=>20031126
S18        26   S14 NOT PD=>20031126
?
```

Karen Lehman EIC3600 306-5783 /d

18/3,K/1 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

02526087 278766751
Making water dance
Mraz, Stephen J
Machine Design v75n1 PP: 80-83 Jan 9, 2003
ISSN: 0024-9114 JRNL CODE: MDS
WORD COUNT: 2857

...TEXT: a group of 22 projectors send light to the fountainhead lenses. (Each projector feeds 10 **fiber - optic cables** .) Two colored gel- **wheel** filters on each prijector combine to **illuminate** the jets with a choice of 28 possible hues. Using **fiber optics** and ;Ind remote-controlled jets means no electrical power is sent to the fountainheads.

Durring...

...lot into a lively fountain of 55 water jets. At night, jets can be individually **illuminated** in one of 28 different colors thanks to **fiber - optic** technology and colored filter **wheels** .

Oarsmen were invented for WET's piece de resistance, the eight-acre fountain in front...

18/3,K/2 (Item 1 from file: 9)
DIALOG(R)File 9:Business & Industry(R)

3686243 Supplier Number: 03686243 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Making water dance: designers are using engineering in the service of art, creating crowd-pleasing fountains and soothing waterscapes. (High-tech Entertainment Industry Focus).
(WET Design devices)
Machine Design, v 75, n 1, p 80
January 09, 2003
DOCUMENT TYPE: Journal ISSN: 0024-9114 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 2649

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...a group of 22 projectors send light to the fountainhead lenses. (Each projector feeds 10 **fiber - optic cables** .) Two colored gel- **wheel** filters on each projector combine to **illuminate** the jets with a choice of 28 possible hues. Using **fiber optics** and remote-controlled jets means no electrical power is sent to the fountainheads.

During the...

18/3,K/3 (Item 2 from file: 9)
DIALOG(R)File 9:Business & Industry(R)

1853688 Supplier Number: 01853688 (USE FORMAT 7 OR 9 FOR FULLTEXT)

Disney Unveils Light Magic Production: An Enchanted, High-Tech 'Streetacular'
(Light Magic, a multi-float, song, dance and fiber optic show, debuted over the Memorial Day weekend in 5/97 at Disneyland, after 4 years of development)
Amusement Business, v 109, n 22, p 16
June 02, 1997
DOCUMENT TYPE: Journal ISSN: 0003-2344 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1088

(USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...dreams, Light Magic begins with Tinkerbell swooping above the crowd and the Main Street facades **glowing** with swirling **fiber optic** effects.

The rolling stages are then **wheeled** into their preappointed positions. Costumed fairies and some of Disney's best known characters then...

18/3,K/4 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

02727337 SUPPLIER NUMBER: 102962908 (USE FORMAT 7 OR 9 FOR FULL TEXT)
This month in digital cameras. (Photo Marketing Association show) (Buyers Guide)
Keller, Jeff
Macworld, 20, 7, 38(3)
July, 2003
DOCUMENT TYPE: Buyers Guide ISSN: 0741-8647 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 1683 LINE COUNT: 00270

... Canon Digital Camera

	Solutions, ArcSoft Camera Suite
Bundled Hardware	32MB CompactFlash card, USB and video **cables**
Battery (E)	lithium ion
Additional Features	AF **illuminator** , supports underwater case, saves favorite settings to mode **wheel** , manual focus-area selection
Movie Mode	yes, with sound (3-minute maximum)
Image Quality	Excellent...

18/3,K/5 (Item 2 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

02651671 SUPPLIER NUMBER: 92890192 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Microsoft Notebook Optical Mouse.(Brief Article)
PC Magazine, NA
Oct 14, 2002
DOCUMENT TYPE: Brief Article ISSN: 0888-8507 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 125 LINE COUNT: 00012

TEXT:
...been waiting for. It is stylish silver gray with an internally lit, translucent red scroll **wheel** and contoured red side panels (also **illuminated**). The thin **cord** doesn't try to yank the mouse away from you, and the buttons are the...

18/3,K/6 (Item 1 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

02959452 Supplier Number: 77070633 (USE FORMAT 7 FOR FULLTEXT)
Happ Controls Inc. Licenses to Manufacture and Sell Duraswitch Technology.
PR Newswire, pNA
August 9, 2001
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 899

... in the gaming industry, and is a high quality manufacturer, exporter and supplier of joysticks, **illuminated** and non- **illuminated** push buttons, industrial-grade trackball controls, steering **wheels** , shifters, pedals, electronic and mechanical coin acceptors, power supplies, power **cords** , switches, electromechanical meters, and other OEM custom input devices. Happ is headquartered in Chicago, and...

18/3,K/7 (Item 2 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

02116039 Supplier Number: 55122477 (USE FORMAT 7 FOR FULLTEXT)
Fiber Optic Lighting a Safe Solution to Electrical Dangers of Pools; Alternative to Conventional Electrical Lighting.
Business Wire, p0058
July 12, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 650

... turn the pool water into a variety of beautiful colors using a remote-controlled color **wheel** in the **fiber optic illuminator** .
About Fiberstars
Fiberstars (Nasdaq:FBST) is the world's leading supplier of **fiber optic** lighting, with products designed, manufactured and marketed in the commercial lighting, sign and swimming pool...

18/3,K/8 (Item 3 from file: 621)
DIALOG(R)File 621:Gale Group New Prod.Annou.(R)

01794038 Supplier Number: 53615843 (USE FORMAT 7 FOR FULLTEXT)
Fiberstars Ships New Pools Market Product.
Business Wire, p0283
Jan 22, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 512

... light with the ability to change the color of the pool water via a color **wheel** in the **illuminator** . Fiberstars is the leading company in **fiber optic** lighting for pools.
Fiberstars is the world's leading supplier of fiber optic lighting, with...

18/3,K/9 (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04989475 Supplier Number: 74823372 (USE FORMAT 7 FOR FULLTEXT)
JEC 2001, Paris - Lighted Composites Safety Rail - Report #3.
Advanced Materials & Composites News, v23, n516, pNA
May 21, 2001
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 193

... be seen with its afterglow tape. A protecting tape is applied to protect the integrated **luminescent** side **glow cable** against dirt. By use of a color **wheel** , the railing can be used as a safety signaling function in the event of calamities...

18/3,K/10 (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04783014 Supplier Number: 65300583 (USE FORMAT 7 FOR FULLTEXT)
Market Report; Fiber Optics 101.
Swimming Pool/Spa Age, pNA
Sept, 2000
Language: English Record Type: Fulltext
Document Type: Tabloid; Trade
Word Count: 1926

... a swimming pool is the benefit of adding color to these areas produced by a **wheel** of color filters inside the **illuminator** .
Underwater, a lens is attached to the end of an end light **cable** and secured in a wall fitting similar to a standard water return fitting. Depending on...

18/3,K/11 (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2005 The Gale Group. All rts. reserv.

04217900 Supplier Number: 55119670 (USE FORMAT 7 FOR FULLTEXT)
The Backyard; Having it all - with creative accents.
Dimartino, Christina

Swimming Pool/Spa Age, pNA
June, 1999
Language: English Record Type: Fulltext
Document Type: Newsletter; Tabloid; Trade
Word Count: 1945

... adds to consumer convenience - just the push of a button and "let there be light."
Fiber optic pool lighting includes the Fiberstars Color **Wheel** for consumers' complete freedom in **illuminating** their pool, spa, waterfall and surrounding landscape with a ribbon of pure light.
Pacesetters in...

18/3,K/12 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

10289358 Supplier Number: 97232861 (USE FORMAT 7 FOR FULLTEXT)
Making water dance: designers are using engineering in the service of art, creating crowd-pleasing fountains and soothing waterscapes. (High-tech Entertainment Industry Focus).(WET Design devices)
Mraz, Stephen J.
Machine Design, v75, n1, p80(4)
Jan 9, 2003
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 2879

... a group of 22 projectors send light to the fountainhead lenses. (Each projector feeds 10 **fiber - optic cables** .) Two colored gel- **wheel** filters on each projector combine to **illuminate** the jets with a choice of 28 possible hues. Using **fiber optics** and remote-controlled jets means no electrical power is sent to the fountainheads.
During the...

18/3,K/13 (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

08891036 Supplier Number: 77070633 (USE FORMAT 7 FOR FULLTEXT)
Happ Controls Inc. Licenses to Manufacture and Sell Duraswitch Technology.
PR Newswire, pNA
August 9, 2001
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 899

... in the gaming industry, and is a high quality manufacturer, exporter and supplier of joysticks, **illuminated** and non- **illuminated** push buttons, industrial-grade trackball controls, steering **wheels** , shifters, pedals, electronic and mechanical coin acceptors, power supplies, power **cords** , switches, electromechanical meters, and other OEM custom input devices. Happ is headquartered in Chicago, and...

18/3,K/14 (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

08648330 Supplier Number: 74823372 (USE FORMAT 7 FOR FULLTEXT)
JEC 2001, Paris - Lighted Composites Safety Rail - Report #3.
Advanced Materials & Composites News, v23, n516, pNA
May 21, 2001
Language: English Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 193

... be seen with its afterglow tape. A protecting tape is applied to protect the integrated **luminescent** side **glow cable** against dirt. By use of a color **wheel** , the railing can be used as a safety signaling function in the event of calamities...

18/3,K/15 (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

06495742 Supplier Number: 55191731 (USE FORMAT 7 FOR FULLTEXT)
SIGNAGE PACKAGE.
Energy User News, v24, n7, p36
July, 1999
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Tabloid; Trade
Word Count: 71

(USE FORMAT 7 FOR FULLTEXT)
TEXT:
...PACKAGE delivers light in a variety of colors from illuminator through coupler and fiber-optic **cable** that is fastened to etched acrylic or glass sign. **Illuminator** projects one or multiple colors through color **wheel** for visual effects in interior retail and commercial applications. Void of electricity or heat, sign...

18/3,K/16 (Item 5 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

06480232 Supplier Number: 55122477 (USE FORMAT 7 FOR FULLTEXT)
Fiber Optic Lighting a Safe Solution to Electrical Dangers of Pools; Alternative to Conventional Electrical Lighting.
Business Wire, p0058
July 12, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 650

... turn the pool water into a variety of beautiful colors using a remote-controlled color **wheel** in the **fiber optic illuminator** .
About Fiberstars
Fiberstars (Nasdaq:FBST) is the world's leading supplier of **fiber optic** lighting, with products designed, manufactured and marketed in the commercial lighting, sign and swimming pool...

18/3,K/17 (Item 6 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

06088711 Supplier Number: 53615843 (USE FORMAT 7 FOR FULLTEXT)
Fiberstars Ships New Pools Market Product.
Business Wire, p0283
Jan 22, 1999
Language: English Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 512

... light with the ability to change the color of the pool water via a color **wheel** in the **illuminator** . Fiberstars is the leading company in **fiber optic** lighting for pools.
Fiberstars is the world's leading supplier of fiber optic lighting, with...

18/3,K/18 (Item 7 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

04706736 Supplier Number: 46928562 (USE FORMAT 7 FOR FULLTEXT)
The bright future of fiber optic lighting
Retail Store Image, p16
Dec, 1996
Language: English Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 655

... with Xzotec. 'Our company has developed a way to integrate motion, color and graphics into **fiber optic** signs.'
Xzotec does this by diffusing light behind the graphic and **illuminating** specific locations on the illustration with carefully placed **fiber optic cable** ends. A color **wheel** imparts the timing to create motion: liquid pouring out of a bottle; spinning globes; rising...

18/3,K/19 (Item 1 from file: 160)
DIALOG(R)File 160:Gale Group PROMT(R)

00362875
Saab-Scania group's new computer-controlled undersea work system can perform repairs, inspection and other tasks at depths to 700 mtrs by remote control.
SIP Newsletter from Sweden September 28, 1977 p. 31

...tasks with the aid of such tools as a grinding disc, rotating brush, cut-off **wheel** and linear **cable** cutter. Powerful lights mounted on the submersible provide **illumination** , while a pan and tilt zoom television camera transmits a clear picture of operations to...

18/3,K/20 (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

16048464 SUPPLIER NUMBER: 102962908 (USE FORMAT 7 OR 9 FOR FULL TEXT)
This month in digital cameras. (Photo Marketing Association show) (Buyers Guide)

Keller, Jeff
Macworld, 20, 7, 38(3)
July, 2003
DOCUMENT TYPE: Buyers Guide ISSN: 0741-8647 LANGUAGE: English
RECORD TYPE: Fulltext
WORD COUNT: 1683 LINE COUNT: 00270

... Canon Digital Camera
Solutions, ArcSoft
Camera Suite

Bundled Hardware	32MB CompactFlash card, USB and video **cables**
Battery (E)	lithium ion
Additional Features	AF **illuminator** , supports underwater case, saves favorite settings to mode **wheel** , manual focus-area selection
Movie Mode	yes, with sound (3-minute maximum)
Image Quality	Excellent...

18/3,K/21 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

15775602 SUPPLIER NUMBER: 98272896 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Fiber optic lighting--simple yet sophisticated: a California lighting company shows how illumination schematics can be functional, fashionable and fun. (FX Special Effects).
Whitcomb, Lisa
Wood & Wood Products, 107, 12, 48(4)
Nov, 2002
ISSN: 0043-7662 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 1272 LINE COUNT: 00105

... patterns together, systems that allow colors to be changed to musical scores, and even perforated **wheels** that make the lights twinkle.
Ideas that **Illuminate** Mind
Besides lighting up display cases, **fiber optics** can be used for cove applications, which is a new benefit of the product. The...

18/3,K/22 (Item 3 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

14972136 SUPPLIER NUMBER: 91210573 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Product index.
R & D, 44, 8, S29(9)
August, 2002
ISSN: 0746-9179 LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 3291 LINE COUNT: 01509

... Failure Analysis/ Materials

Charactedzation/Corrosion Testing 90

Fans/Blowers 109

Feedthroughs 203

Fermentation Equipment 106
Fiber Optic
60
Fiber Optic
Testing Equipment 183
Fiber Optics Illuminators
137
Fiber
, Glass 125

Filter Media 125

Filter Papers 126
Filter **Wheels**
137

Filters 137

Filters 58

Filters AC Power 190

Filters Circular Variable Neutral Density 137...

18/3,K/23 (Item 4 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

13712588 SUPPLIER NUMBER: 77070633 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Happ Controls Inc. Licenses to Manufacture and Sell Duraswitch Technology.
PR Newswire, NA
August 9, 2001
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 899 LINE COUNT: 00083

... in the gaming industry, and is a high quality manufacturer, exporter and supplier of joysticks, **illuminated** and non- **illuminated** push buttons, industrial-grade trackball controls, steering **wheels** , shifters, pedals, electronic and mechanical coin acceptors, power supplies, power **cords** , switches, electromechanical meters, and other OEM custom input devices. Happ is headquartered in Chicago, and...

18/3,K/24 (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

11174340 SUPPLIER NUMBER: 55122477 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Fiber Optic Lighting a Safe Solution to Electrical Dangers of Pools; Alternative to Conventional Electrical Lighting.
Business Wire, 0058

July 12, 1999
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 690 LINE COUNT: 00060

... turn the pool water into a variety of beautiful colors using a remote-controlled color **wheel** in the **fiber optic illuminator** .
About Fiberstars
Fiberstars (Nasdaq:FBST) is the world's leading supplier of **fiber optic** lighting, with products designed, manufactured and marketed in the commercial lighting, sign and swimming pool...

18/3,K/25 (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

10762334 SUPPLIER NUMBER: 53615843 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Fiberstars Ships New Pools Market Product.
Business Wire, 0283
Jan 22, 1999
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 537 LINE COUNT: 00046

... light with the ability to change the color of the pool water via a color **wheel** in the **illuminator** . Fiberstars is the leading company in **fiber optic** lighting for pools.
Fiberstars is the world's leading supplier of fiber optic lighting, with...

18/3,K/26 (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2005 The Gale Group. All rts. reserv.

04600886 SUPPLIER NUMBER: 09088107 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Powered mobile equipment and accessories. (1990-91 Handbook and Directory)
Material Handling Engineering, v44, n13, pA13(10)
Annual, 1990
ISSN: 0025-5262 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
WORD COUNT: 5108 LINE COUNT: 00401

... activated by gating sensors, the fiber-optic sensors look for obstructions under the truck's **wheels** . If an obstruction is detected, a red light **illuminates** on the operator's panel and the circuitry does not allow the load to be...
?

```
 SHOW FILES;DS
File   2:INSPEC 1969-2005/Mar W2
         (c) 2005 Institution of Electrical Engineers
File   6:NTIS 1964-2005/Mar W2
         (c) 2005 NTIS, Intl Cpyrght All Rights Res
File   8:Ei Compendex(R) 1970-2005/Mar W2
         (c) 2005 Elsevier Eng.  Info. Inc.
File  25:Weldasearch-19662005/Feb
         (c) 2005 TWI Ltd
File  34:SciSearch(R) Cited Ref Sci 1990-2005/Mar W3
         (c) 2005 Inst for Sci Info
File  63:Transport Res(TRIS) 1970-2005/
         (c) fmt only 2005 Dialog Corp.
File  65:Inside Conferences 1993-2005/Mar W3
         (c) 2005 BLDSC all rts. reserv.
File  81:MIRA - Motor Industry Research 2001-2005/Feb
          (c) 2005 MIRA Ltd.
File  94:JICST-EPlus 1985-2005/Feb W1
         (c)2005 Japan Science and Tech Corp(JST)
File  95:TEME-Technology & Management 1989-2005/Feb W2
         (c) 2005 FIZ TECHNIK
File  96:FLUIDEX 1972-2005/Mar
         (c) 2005 Elsevier Science Ltd.
File  99:Wilson Appl. Sci & Tech Abs 1983-2005/Feb
         (c) 2005 The HW Wilson Co.
File 103:Energy SciTec 1974-2005/Mar B1
         (c) 2005 Contains copyrighted material
File 118:ICONDA-Intl Construction 1976-2005/Mar
         (c) 2005 Fraunhofer-IRB
File 144:Pascal 1973-2005/Mar W2
         (c) 2005 INIST/CNRS
File 292:GEOBASE(TM) 1980-2005/Feb B1
         (c) 2005 Elsevier Science Ltd.
File 323:RAPRA Rubber & Plastics 1972-2005/Feb
          (c) 2005 RAPRA Technology Ltd
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info

Set     Items   Description
S1    2932898   LUMINESC? OR GLOW? OR LIGHT? OR FLOURESCENT?
S2      24778   AXLE?
S3     248372   WHEEL? OR TIRE OR TYRE OR TIRES
S4     185412   POWER(2N)(SUPPLY OR SOURCE)
S5     325287   (FIBER OR FIBRE)(2N)OPTIC?
S6     507357   CABLE OR CABLES OR CORD OR CORDS
S7          3   S1(5N)S2(5N)(S4 OR BATTERY OR BATTERIES)
S8       3026   S1(5N)(S2 OR S3)
S9          0   S8 AND S4 AND S5
S10        39   S8 AND (S4 OR S5)
S11   1280411   CAR OR CARS OR VEHICLE? OR TRUCK? OR LORRY? OR AUTOMOBILE?
              OR AIRPLANE? OR AEROPLANCE?
S12      2683   AEROPLANE
S13        20   S10 AND (S11 OR S12)
S14         5   S8(7N)(S4 OR S5)
?
```

Karen Lehman EIC3600 306-5783 /d

/7/1 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC

01135445 INSPEC Abstract Number: B78004512, C78002467
Title: SAR's track geometry recording coach
Journal: Railways Southern Africa p.29, 31, 33, 35
Publication Date: July 1977 Country of Publication: South Africa
CODEN: RSAFDR
Language: English Document Type: Journal Paper (JP)
Treatment: Applications (A); General, Review (G)
Abstract: SAR has recently received a track geometry recording coach, which will assist in maintaining high-quality track and allow regular inspection of 18000 km of track per year. It has been designed to be completely self-contained and is thus attachable to regularly-scheduled trains travelling throughout the country. A diesel generating set provides power for the instrumentation, anb a **battery / axle** -driven generator powers air-conditioning, galley and **lighting** . (0 Refs)
Subfile: B C

7/7/2 (Item 1 from file: 6)
DIALOG(R)File 6:NTIS

0287559 NTIS Accession Number: PB-202 354/XAB
A Portable Wheel-Weighing Unit and Data Recorder
Potocki, F. P.
Road Research Lab., Crowthorne (England).
Corp. Source Codes: 306850
Report No.: RRL-LR391
1971 19p
Journal Announcement: GRAI7120
Order this product from NTIS by: phone at 1-800-553-NTIS (U.S. customers); (703)605-6000 (other countries); fax at (703)321-8547; and email at orders@ntis.fedworld.gov. NTIS is located at 5285 Port Royal Road, Springfield, VA, 22161, USA.
NTIS Prices: PC A02/MF A01
The report describes a portable weighing unit developed by the Tropical Section of the Road Research Laboratory for carrying out surveys of vehicle **axle** -loads in the tropics. The unit is **battery** operated, robust, **light** in weight, has a loading platform of ample size (70 cm x 50 cm), and is not adversely affected by high temperatures or humidities. The loading range is 0- 10,000 kg. Details are also given of associated apparatus made commercially to the Road Research Laboratory's specification. This includes a dial load indicator and a data recording unit which is capable of registering on punched tape up to ten descriptors of each vehicle being weighed in an axle-load survey. The punched tape can be used for direct input into a computer for the rapid analysis of survey data. Under field conditions the overall accuracy of the weighing unit and measuring apparatus combined is plus or minus 2 per cent. The equipment has performed satisfactorily in the field under conditions of high temperature and humidity. (Author)

7/7/3 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

00249045 E.I. Monthly No: EI72X056584

Title: Portable wheel- weighing unit and data recorder.
Author: POTOCKI, F. P.
Source: Gt Brit, Min Transp, Road Res Lab, RRL Rep LR 391, 1971, 17 p
Publication Year: 1971
Language: ENGLISH
Journal Announcement: 72X0
Abstract: The report describes a portable weighing unit developed by the Tropical Section of the Road Research Laboratory for carrying out surveys of vehicle **axle** - loads in the tropics. The unit is **battery** operated, robust, **light** in weight, has a loading platform of ample size (70 cm x 50 cm), and is not adversely affected by high temperatures of humidities. The load range is 0 to 10,000 kg. The equipment has performed satisfactorily in the field under condit

4/7/1 (Item 1 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

06555921 E.I. No: EIP03417662245
Title: Analysis of fiber optic traffic sensors in flexible pavements
Author: Cosentino, Paul J.; von Eckroth, Wulf; Grossman, Barry G.
Corporate Source: Civil Engineering Dept. Florida Institute of Technology, Melbourne, FL 32901-6975, United States
Source: Journal of Transportation Engineering v 129 n 5 September/October 2003. p 549-557
Publication Year: 2003
ISSN: 0733-947X
Language: English
Document Type: JA; (Journal Article) Treatment: T; (Theoretical); X; (Experimental)
Journal Announcement: 0310W3
Abstract: A series of linear-elastic plane-strain finite-element analyses were conducted on a newly developed fiber optic traffic sensor whose potential uses include traffic classification and weigh-in-motion. These sensors have performed well in the pavement when placed in six-foot-long narrow vertical grooves. The objective of this research was to determine how the sensor functions in this vertical configuration. Results from three finite-element models were correlated to laboratory and field results showing that the pavement groove closes, thereby squeezing the sensor as tires load the pavement around it. As the fiber optic sensor deforms, the intensity of the light passing through the fiber decreases, allowing roadside computer systems to use this intensity for vehicle classification or weigh-in-motion. Laboratory testing of sensors was performed pneumatically to simulate tire pressures, enabling comparable load, optical light intensity, and deflection data to be obtained for bare and encapsulated sensors. In the field, load-deflection data from falling weight deflectometer testing was used to validate the finite-element modeling. 15 Refs.

14/7/2 (Item 2 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

05864139 E.I. No: EIP01306592119
Title: Proceedings of the 2001 IEEE/ASME Joint Railroad Conference
Author: Anon (Ed.)
Conference Title: 2001 IEEE/ASME Joint Railroad Conference
Conference Location: Toronto, Ont, Canada Conference Date: 20010417-20010419
Sponsor: Vehicular Technology Society; Land Transportation Division; IEEE
E.I. Conference No.: 58273
Source: Proceedings of the IEEE/ASME Joint Railroad Conference 2001. p 275 (IEEE cat n 01CH37235)
Publication Year: 2001
CODEN: 85NYAW
Language: English
Document Type: CP; (Conference Review) Treatment: T; (Theoretical)
Journal Announcement: 0108W1
Abstract: The proceedings contains 26 papers from 2001 the Institute of Electrical and Electronics Engineers (IEEE)/American Society of Mechanical Engineers (ASME) Joint Rail Conference. Topics discussed include: development of locomotive wheels for improved adhesion and life; design optimization of a freight car wheel; new electric high speed locomotives with three phase drive systems for the US market; broadband networks for

transit applications and tunnel lighting and station emergency lighting. (Edited abstract)

14/7/3 (Item 3 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)

04222331 E.I. No: EIP95082811924
Title: New spherical mirror-finish surface machining technology for optical fiber connector
Author: Kanda, Torahiko; Mitsuhashi, Masashige; Ueda, Tetsuji; Yamamoto, Koji
Corporate Source: Functional Devices Research Lab
Source: NEC Research & Development v 36 n 2 Apr 1995. p 271-279
Publication Year: 1995
CODEN: NECRAU ISSN: 0048-0436
Language: English
Document Type: RR; (Report Review) Treatment: A; (Applications); G; (General Review)
Journal Announcement: 9510W1
Abstract: This paper describes a new grinding technology for the fabrication of spherical mirror-finish endfaces on PC (Physical Contact) optical fiber connectors to be used in optical fiber communications systems. The convex spherical endface is obtained by rotating and pushing the connector perpendicularly against the concave surface of a metal bond micro-grain grinding wheel. A truing wheel is used to maintain precise grinding wheel concavity, and electrolytic dressing of the grinding wheel allows a mirror-finish surface (0.06 mu m R//m//a//x) to be produced directly, without the conventional need for lapping. The endface is subsequently fine-polished with similar conditions to that employed after conventional fabrication. Experiments were performed to determine the appropriate conditions for achieving desired surface smoothness and spherical shape accuracy. PC connectors produced demonstrated sufficiently high optical light transmission characteristics of the average return loss of 47 dB. (Author abstract) 7 Refs.

14/7/4 (Item 1 from file: 63)
DIALOG(R)File 63:Transport Res(TRIS)

00769783 DA
TITLE: AN OVERVIEW OF THE KUALA LUMPUR LRT SYSTEM 2
AUTHOR(S): Byers, DC
CORPORATE SOURCE: American Public Transit Association, 1201 New York Avenue, NW , Washington, DC, 20005,
REPORT NUMBER: Volume 3
Pag: 7p
SUPPLEMENTAL NOTES: Full Conference proceedings available only on CD.
PUBLICATION DATE: 19980000 PUBLICATION YEAR: 1998
LANGUAGE: English SUBFILE: UMTRIS (U)
ISSN: N/A
AVAILABILITY: American Public Transit Association; 1201 New York Avenue, NW ; Washington; DC ; 20005
ORDER NUMBER: N/A
ABSTRACT: This paper discusses Kuala Lumpur's LRT System 2, the driverless, linear induction motor powered urban transit system that is scheduled to enter partial revenue service soon. This system deploys a fully automated guideway transit MK II technology, which surpasses passenger carrying capacities of present automated guideway transit and extends

these capacities into the domain of mass transit. Some of the noteworthy features of the ART MK II technology include: a communication based moving block automatic train control system; a four rail **power supply** system with dual side running rails; a **lightweight** vehicle equipped with steerable **axle** trucks; a fully automated (unmanned) storage yard; and linear induction motor traction.
SUBJECT HEADING: U17 ITS, APTS, MAGLEV, NEW SYSTEMS

14/7/5 (Item 1 from file: 95)
DIALOG(R)File 95:TEME-Technology & Management

00602360 M92058328666
Capteur de vitesse d'un element rotatif notamment d'une roue de vehicule automobile
(Geschwindigkeitsmessaufnehmer eines drehbaren Elements, insbesondere fuer ein Kraftfahrzeugrad)
(Speed sensor for a rotating element, in particular for a motor vehicle wheel)
Hennequin, Y; Jury, C
Jaeger Levallois-Perret, F
1992
Document type: European patent application Language: French
Record type: Abstract

ABSTRACT:
Capteur optique de vitesse d'un element (22) rotatif par rapport a un element de chassis fixe (10) comportant: - un organe codeur annulaire (100) fixe sur la partie mobile de l'element rotatif et pourvu d'une pluralite de surfaces de reflexion (103, 104) reparties autour de son axe (21), et - un transducteur optique (200) fixe sur l'element de chassis et comportant: - au moins un emetteur optique (E) apte a diriger un faisceau lumineux sur lesdites surfaces de reflexion (103, 104), et - au moins un recepteur optiqe (R) apte a detecter le faisceau lumineux renvoye par les surfaces de reflexion (103, 104), caracterise par le fait que: - l'organe codeur (100) est place dans la chambre etanche (38) d'un roulement intercale entre la partie mobile (22) de l'element rotatif et l'element de chassis fixe (10), et - le capteur comprend en outre au moins deux fibres optiques (210, 212, 213) dont une premiere extremite est placee respectivement en regard de l'emetteur optique (E) et du recepteur optique (R), tandis que leur seconde extremite traverse la cage fixe (12) du roulement pour deboucher en regard de l'organe codeur (100). (Sans garantie de validite de protection et d'application.)
?

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nternational Patent Class (Additional): G08B-021/00
? show files;ds
File 347:JAPIO Nov 1976-2004/Nov(Updated 050309)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200519
         (c) 2005  Thomson Derwent
File 371:French Patents 1961-2002/BOPI 200209
         (c) 2002 INPI.  All rts. reserv.
File 344:Chinese Patents Abs Aug 1985-2004/May
         (c) 2004 European Patent Office

Set     Items   Description
S1    1642164   LUMINESC? OR GLOW? OR LIGHT? OR FLOURESCENT?
S2     109028   AXLE?
S3     538996   WHEEL? OR TIRE OR TYRE OR TIRES
S4     487323   POWER(2N)(SUPPLY OR SOURCE)
S5     159153   (FIBER OR FIBRE)(2N)OPTIC?
S6     513382   CABLE OR CABLES OR CORD OR CORDS
S7       6057   S1(5N)(S2 OR S3)
S8     152195   ILLUMINAT?
S9        410   S8(5N)(S2 OR S3)
S10        91   (S7 OR S9) AND S5
S11   1535937   VEHICLE? OR CAR OR CARS OR TRUCK? OR SUV? OR AUTOMOBILE? OR
                SKATE()BOARD? OR SKATEBOARD?
S12        17   S10 AND S11
S13         4   S10 AND S4
S14        19   (S12 OR S13) NOT PD=>20031126
?
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14/7/1 (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO

04692227 **Image available**
SPEED DETECTOR

PUB. NO.: 07-012827 [JP 7012827 A]
PUBLISHED: January 17, 1995 (19950117)
INVENTOR(s): MATSUI KAZUHIKO
APPLICANT(s): JAPAN AVIATION ELECTRON IND LTD [352271] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-155478 [JP 93155478]
FILED: June 25, 1993 (19930625)

ABSTRACT

PURPOSE: To obtain a speed detector which can withstand vibrations and impacts and can detect the speed of an object to be measured with high accuracy by providing a movable shaft which is rotated upon receiving the rotation of an axle and detecting the rotating speed of the shaft.

CONSTITUTION: The rotation of an axle 21 is transmitted to a movable shaft 29 through bevel gears 25 and 27 and a rotating plate 41 connected with the shaft 29 rotates at the rotating speed corresponding to the rotating speed of the **axle** 21. The **light** of a **light** source incorporated in a display 39 is transmitted to a photodetector 33 through an **optical fiber** 49 and the light emitted from a light collimator 45 reaches another light collimator 47 through the slit 43 of the rotating plate 41. At the same time, the optical pulse signal corresponding to the rotating speed of the plate 41 is transmitted to the collimator 47. The pulse signal is transmitted to the display 39 through an **optical fiber** 51 and a photoelectric converter incorporated in the display 39 converts the signal into an electric pulse signal. Based on the electric pulse signal, a processor finds the number of revolution and speed of the axle 21. Since the rotation of the axle is transmitted to the detector through the movable shaft such a way, movable shaft interrupt transmission of the vibration of the axle and impacts from the axle to the detector and the detector can detect the speed of the axle with high accuracy.

14/7/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

04542014 **Image available**
LIGHT TRANSMISSION TYPE **WHEEL** SPEED SENSOR

PUB. NO.: 06-213914 [JP 6213914 A]
PUBLISHED: August 05, 1994 (19940805)
INVENTOR(s): YAMANE MASUZO
APPLICANT(s): NABCO LTD [000401] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 05-021915 [JP 9321915]
FILED: January 14, 1993 (19930114)

ABSTRACT

PURPOSE: To arrange a light source at the same side as that of an encoder plate while avoiding an optical loss of a dirt by so setting directions of light emitting and receiving to the plate having a light transmission window in parallel with an axis of an axle.

CONSTITUTION: A wheel speed sensor 300 comprises a transmission type encoder plate 400, a light source for emitting a light to the plate 400, and light receiving means for receiving a light passed through a light transmission window 410 of the plate 400. A light emitting device and a photodetector are disposed on the same side as that of the plate 400 in an electric circuit of light emitting and receiving. The elements are disposed separately from a housing 70. A light from the light source is transmitted via an **optical fiber** 360, parallelized by a SELFOC lens 350, and then converted at 180 degrees by a rectangular prism 340. Then, it is condensed via a spherical lens, passed through the window to the photodetector via an **optical fiber** 320. The components of the optical system are gathered and contained in the housing 70.

14/7/3 (Item 3 from file: 347)
DIALOG(R)File 347:JAPIO

01122816 **Image available**
VEHICLE SPEED SENSOR

PUB. NO.: 58-060216 [JP 58060216 A]
PUBLISHED: April 09, 1983 (19830409)
INVENTOR(s): MORIYAMA MASAKAZU
SHINOHARA TOSHIO
HAYASHI YUKIZO
ISHII YUNOSUKE
APPLICANT(s): TOYOTA MOTOR CORP [000320] (A Japanese Company or Corporation), JP (Japan)
SUMITOMO ELECTRIC IND LTD [000213] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 56-159771 [JP 81159771]
FILED: October 06, 1981 (19811006)

ABSTRACT

PURPOSE: To make a curvature radius constant, with regard to the detection of the **vehicle** speed by using a light signal, by fixing a part of an **optical fiber** cable by a cable supporting tool having a curved part, suppressing the vibration of the **optical fiber** cable, and bending the cable along the curved part.

CONSTITUTION: Two pieces of the **optical fiber** cables are enclosed in a cover 2. The coating and the reinforcing material of the front end is cut away, and a plug 17 is fixed. The longer cable is curved at a large radius along the inner surface of the cover from the front side of the encoder 13 and supported by the cable supporting tool 25. When the **vehicle** speed sensor is attached to an **automobile**, the encoder 13 is rotated at a speed proportional to the **wheel** rotation of the **automobile**. The **light** emitting element of the **optical fiber** cables 16 and 16 continuously emits the light at a constant intensity. The light through the encoder 13 is detected by the light receiving element at the other end. Since many cutouts 24,... are provided at the periphery of the encoder 13, pulse light is detected by the light receiving element, and the **vehicle** speed can be detected.

14/7/4 (Item 4 from file: 347)
DIALOG(R)File 347:JAPIO

00708807 **Image available**
DETECTOR FOR RAIL HEIGHT DISPLACEMENT

PUB. NO.: 56-029107 [JP 56029107 A]
PUBLISHED: March 23, 1981 (19810323)
INVENTOR(s): ISHIDA AKIRA
TAKESHITA KUNIO
YOSHIKAWA TATSUO
GOMI HIROAKI
UENO YOSHIAKI
TAKAHASHI KENSAKU
APPLICANT(s): JAPANESE NATIONAL RAILWAYS<JNR> [000414] (A Japanese Company or Corporation), JP (Japan)
HITACHI LTD [000510] (A Japanese Company or Corporation), JP (Japan)
HITACHI ELECTRONICS ENG CO LTD [323782] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 54-103989 [JP 79103989]
FILED: August 17, 1979 (19790817)

ABSTRACT

PURPOSE: To obtain the detector ease of handling and high in accuracy, by providing the projector to the shaft box of the **wheel** and the **light** source connected to the projector via the photoreceiver and **optical fiber** with the **car** .

CONSTITUTION: The projector 9 is installed on the bearing box 3 of the **wheel** , and the **light** source 11 connected to the projector 9 via the photoreceiver 10 and the **optical fiber** 12 is installed underneath the floor of the **car** body 7. Further, the displacement of rays according to upper and down displacement of rail is received at the photoreceiver 10 to detect the height of rail. Accordingly, the light source 11 and the photoreceiver 10 can be formed so that they are not subject to the affect of vibration and shock and easily formed to protect the invasion of rain, snow and external light, allowing ease of handling and detection with high accuracy.

14/7/5 (Item 5 from file: 347)
DIALOG(R)File 347:JAPIO

00580835 **Image available**
HEAD LAMP IRRADIATION ANGLE ADJUSTING DEVICE FOR MOTORCAR

PUB. NO.: 55-068435 [JP 55068435 A]
PUBLISHED: May 23, 1980 (19800523)
INVENTOR(s): MIYAUCHI SHIZUYA
APPLICANT(s): KOITO MFG CO LTD [000113] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 53-140910 [JP 78140910]
FILED: November 14, 1978 (19781114)

ABSTRACT

PURPOSE: To accurately adjust the irradiation angle of the head lamp by expressing the automatically-detected displacements of the front and rear **wheel axles** by the colored **lights** to instruct the operating position of the manual operation part by the mixed indication of the colored lights.

CONSTITUTION: The vertical displacement of the body of the motorcar is taken out as the rotation of the transmitting shaft through the

transmitting rod and arm to swing the swinging body 6 in the case 1 to change the filter 9 facing the bulb 4 corresponding to the rate and the direction of displacement of the **wheel axles** 22. The expressed colored **lights** are conveyed to the indication part 25 by the **optical fiber** 24. Then, the dial type operation knob 34 is manually turned to the position of the indication mark corresponding to the color indicated on the screen 33 of the indication part 25 to adjust the irradiation angle of the head lamp to the right angle in accordance with the inclination of the body.

14/7/6 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015660812 **Image available**
WPI Acc No: 2003-722999/200369
Measurement of tire operating parameters such as pressure, etc. using an optical fiber measurement sensor embedded within the tire so that changes in the transmitted light can be related to operating parameters
Patent Assignee: DAIMLERCHRYSLER AG (DAIM)
Inventor: BICKEL B
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 10208998	A1	20030911	DE 1008998	A	20020228	200369	B

Priority Applications (No Type Date): DE 1008998 A 20020228
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 10208998	A1		8	G01L-005/18	

Abstract (Basic): DE 10208998 A1
NOVELTY - Sensor device for determining motor **vehicle** tire parameters. Said device comprises a measurement sensor in the form of an **optical fiber** (3) that transmits **light** through the **tire**. Dependent on the **tire** parameters the transmitted **light** waves are influenced and the change in light wave values is used to evaluated changes in tire parameters.
USE - Measurement of tire operating parameters such as pressure, rotational velocity, friction coefficient, longitudinal and transverse forces, etc. using an **optical fiber** measurement sensor.
ADVANTAGE - The inventive sensor is relatively easily incorporated into a tire and has negligible effect on its weight.
DESCRIPTION OF DRAWING(S) - Figure shows a cross section through a motor **vehicle** tire with an **optical fiber** sensor. The magnified section shows the **optical fiber** as it is cut through in three helical sections.
optical fiber . (3)
pp; 8 DwgNo 1/3
Derwent Class: S02; V07; X22
International Patent Class (Main): G01L-005/18

14/7/7 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

015545448 **Image available**
WPI Acc No: 2003-607604/200357

Illumination system for insertion into recess in surface comprises light emitting part and light generating part which are fixedly coupled into integrated body, and arm extending parallel with light emitting side

Patent Assignee: PAS I J T M (PASI-I)
Inventor: PAS I J T M
Number of Countries: 098 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
WO 200331727	A1	20030417	WO 2001NL652	A	20011008	200357	B
TW 538180	A	20030621	TW 2001126572	A	20011026	200377	
AU 2002211053	A1	20030422	WO 2001NL652	A	20011008	200461	
			AU 2002211053	A	20011008		

Priority Applications (No Type Date): WO 2001NL652 A 20011008
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200331727	A1	E	43	E01F-009/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
Designated States (Regional): AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SL SZ TR TZ UG ZW

TW 538180	A	E01F-009/053	
AU 2002211053	A1	E01F-009/00	Based on patent WO 200331727

Abstract (Basic): WO 200331727 A1

NOVELTY - Illumination system for insertion into a recess in a surface has light emitting part comprising a plastic body encapsulating **optical fiber** (s) and having a light emitting side; a light generating part having a housing including light source(s) (8); and an arm extending parallel with the light emitting side. The light emitting and light generating parts are fixedly coupled into an integrated body.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for:

(a) A method of fabricating a plastic body (5) for use in an illumination system, which comprises providing a mold for the plastic body, which comprises projections at those locations where skid resistance increasing mechanism are to be present in the plastic body; providing at least one **optical fiber** (6) in the mold; filling the mold with liquid plastic material; partially hardening the liquid plastic material until it is dimensionally stable; taking the partially hardened plastic body out of the mold; filling recesses corresponding with the projections with mineral grains having a hardness of more than 7 on Mohs' scale; and totally hardening the plastic body; and

(b) A method of recovering an illumination system, which comprises severing every arm (9) that has been bonded to the surface by severing mechanisms; lifting from the recess the integrated body; and separating the light generating part (3) from the plastic body.

USE - The illumination system is used in a recess in a road surface, a tunnel wall, or a crash barrier (claimed).

ADVANTAGE - The illumination system can be easily and quickly removed from a recess in a surface. The incorporation of a skid resistance increasing mechanism allows **vehicles** to drive across the illumination system when used as a traffic marker, without a risk of skidding because of decreased resistance between **tire** and **illumination** system.

DESCRIPTION OF DRAWING(S) - The figure shows an illumination system.

Light emitting part (2)
Light generating part (3)
Light emitting side (4)

Plastic body (5)
Optical fibers (6)
Light source (8)
Arm (9)
pp; 43 DwgNo 2/12
Derwent Class: A89; P81; Q41; V07; X26
International Patent Class (Main): E01F-009/00; E01F-009/053
International Patent Class (Additional): E01F-009/06; E01F-009/08; G02B-005/128

14/7/8 (Item 3 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013569236 **Image available**
WPI Acc No: 2001-053443/200107
Induction hardening apparatus for hardening of penetrating pores in various components such as gear wheel **, has** light **transformation unit which changes light signals of** optical fiber **into temperature reading**
Patent Assignee: DAIDO TOKUSHUKO KK (DAIZ)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2000273532	A	20001003	JP 9984058	A	19990326	200107	B

Priority Applications (No Type Date): JP 9984058 A 19990326
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000273532	A		9	C21D-001/10	

Abstract (Basic): JP 2000273532 A
NOVELTY - The apparatus (1) comprises an electricity supply pipe (10) which is inserted into a penetrating pore (6) of a treating material (4). An **optical fiber** (40) is inserted into the pipe. The other end of the fiber is connected to a light transformation unit (60). Light signals (L) from the **optical fiber** is converted by light transformation unit by which heating temperature of the penetrating pore is measured.
DETAILED DESCRIPTION - A high frequency **power supply** (74) is connected to one end of the electricity supply pipe. A cooling medium such as water (W) is supplied between the **power supply** and the pipe.
USE - For hardening of penetrating pores in components such as in gear wheel.
ADVANTAGE - Obtains accurate results by the light transformation unit. Improves working performance by the supply of cooling medium.
DESCRIPTION OF DRAWING(S) - The figure shows the outline diagram of induction hardening apparatus.
Induction hardening apparatus (1)
Treating material (4)
Penetration pore (6)
Optical fiber (40)
Light transformation unit (60)
High frequency **power supply** (74)
Light signal (L)
Water (W)
pp; 9 DwgNo 1/5
Derwent Class: M24
International Patent Class (Main): C21D-001/10

International Patent Class (Additional): C21D-001/54

14/7/9 (Item 4 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013115142 **Image available**
WPI Acc No: 2000-287013/200025
Rear view arrangement in helmet for riding two wheeled **motor** vehicle , **irradiates** light **of back scene from** optical fiber **on reflecting plate which projects the image for user's view**
Patent Assignee: SUZUKI KK (SUZM)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2000080511	A	20000321	JP 98260937	A	1998083	200025	B

Priority Applications (No Type Date): JP 98260937 A 19980831
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000080511	A		9	A42B-003/00	

Abstract (Basic): JP 2000080511 A

NOVELTY - A condenser (3) provided in the rear side of helmet (100) condenses light from a back scene which is then transmitted to receiving end (22) of an **optical fiber** (2). The received light is irradiated on an optical reflecting plate (4) which inturn projects the back scene for the user to view.

USE - For two-wheeled motor **vehicle** users.

ADVANTAGE - Reduces size and weight since the electric **power supply** battery is not needed. Since expensive CCD camera is not used, production cost reduces and productivity improves.

DESCRIPTION OF DRAWING(S) - The figure shows the sectional view of rear view arrangement.

Optical fiber (2)
Condenser (3)
Optical reflecting plate (4)
Receiving end (22)
Helmet (100)
pp; 9 DwgNo 1/10

Derwent Class: P21; V07; W05; X22; X27
International Patent Class (Main): A42B-003/00
International Patent Class (Additional): A42B-003/04

14/7/10 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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013066224 **Image available**
WPI Acc No: 2000-238096/200021
Truck **traffic monitoring and warning system has two sets of sensors for operating traffic control device if computed speed of** truck **exceeds maximum safe speed according to detected configuration of** truck
Patent Assignee: BERGAN T (BERG-I); KLASHINSKY R (KLAS-I); INT ROAD DYNAMICS INC (ITRO-N)
Inventor: BERGAN T; KLASHINSKY R
Number of Countries: 002 Number of Patents: 002
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
CA 2238127	A1	19991115	CA 2238127	A	19980515	200021	B
US 6204778	B1	20010320	US 98122993	A	19980728	200118	

Priority Applications (No Type Date): CA 2238127 A 19980515; CA 2240916 A 19980616
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2238127	A1	E	89	G08G-001/04	
US 6204778	B1			G08G-001/01	

Abstract (Basic): CA 2238127 A1

NOVELTY - A first set of sensors are disposed above the traffic lane for determining if the **vehicle** is a **truck** and recording the configuration of the **truck**, while a second set of sensors are disposed in the traffic lane approaching the hazard for determining the speed of the **truck** . A microprocessor stores data related to the geometry of the hazard and data from the sensors and controls a traffic signaling device downstream of the sensors. The processor operates the traffic signaling device if the actual **truck** speed exceeds a calculated maximum safe speed that the **truck** may negotiate the hazard.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a method for automatically controlling the operation of a traffic signaling drive associated with the road hazard.

USE - For monitoring commercial **vehicles** for informing **truck** driver that **vehicle** is approaching road hazard, such as incline, bend or camber, at speed that exceeds maximum safe speed for that hazard and that configuration of **truck** . Can also be used in a controlled intersection.

ADVANTAGE - Computes maximum speed that particular **truck** may safely negotiate particular hazard, according to detected **truck** configuration, weight, number of axles, height etc.

DESCRIPTION OF DRAWING(S) - The drawing shows a block schematic diagram of the traffic monitoring system.

inroad sensors (12,13;17,18)
variable message signs (14,15)
road side controllers (16,19)
pp; 89 DwgNo 2/21

Derwent Class: S02; T01; T07
International Patent Class (Main): G08G-001/01; G08G-001/04
International Patent Class (Additional): G08G-001/08; G08G-001/09

14/7/11 (Item 6 from file: 350)
DIALOG(R)File 350:Derwent WPIX

011307043 **Image available**
WPI Acc No: 1997-284948/199726
Wheel **mounted side safety** light **for bicycle - includes number of optical fibres connected to reflector situated on wheel spokes which radiates** light **from diode to both sides**
Patent Assignee: UNITIKA SPARK-LITE KK (NIRA)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 9104377	A	19970422	JP 95263727	A	19951012	199726	B

Priority Applications (No Type Date): JP 95263727 A 19951012
Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
JP 9104377 A 7 B62J-006/20

Abstract (Basic): JP 9104377 A

The side safety light has a main body (2) which carries the LED safety light (10). The light from the light emitting diode falls on the number of optical fibres (3).

One end of the optical fibres draws the light and the other end radiates it. The reflector (5) reflects the radiated light from the other end part of **optical fibre** . The radiating end of **optical fibre** is connected to the reflector for the above operation. The Reflectors are connected to the spokes (7) of the wheels (6) of the bicycle (4). This ensures light distribution on both sides of bicycle.

ADVANTAGE - Improves safety during night transit as side illumination of bicycle is provided. Easy bicycle recognition by motor **vehicle** is possible as reflectors are located on wheel spokes.

Dwg.1/10

Derwent Class: Q16; Q23; Q71; V07; X22; X26
International Patent Class (Main): B62J-006/20
International Patent Class (Additional): B60Q-001/32; F21M-003/02; F21Q-001/00; F21V-008/00

14/7/12 (Item 7 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

011124391 **Image available**
WPI Acc No: 1997-102315/199710

Vehicle **wheel trains geometry measuring device - uses reflecting elements attached to** vehicle wheels **which interact with** light **emitting and receiving instruments.**

Patent Assignee: MULLER BEM SA (MULL-N)
Inventor: DOUINE D; MULLER P
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
FR 2735861	A1	19961227	FR 957552	A	19950623	199710	B

Priority Applications (No Type Date): FR 957552 A 19950623
Patent Details:
Patent No Kind Lan Pg Main IPC Filing Notes
FR 2735861 A1 43 G01B-011/275

Abstract (Basic): FR 2735861 A

The wheels (1,2,3,4) of a **vehicle** have reflecting elements (5,6,7,8) attached to them by suction cup or similar means. The reflecting elements include a dihedral mirror formation. External emitting and receiving units (11,12,13,14) are positioned adjacent to each wheel and it's reflecting element.

The external emitting and receiving units may be adjusted manually along guides (9) which are themselves positioned by laser. Distances along the guides are determined by optical encoders and fork driven by rollers. Tyre marks are detected by **optical fibre** weaves which are placed under the **vehicle** road wheels.

ADVANTAGE - Geometry of wheel train may be determined more quickly and with less manual intervention.

Dwg.1/6

Derwent Class: P52; Q17; S02
International Patent Class (Main): G01B-011/275

International Patent Class (Additional): B21D-001/14; B60S-005/00; G01B-103/00; G01B-121/14

14/7/13 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX

009743763 **Image available**
WPI Acc No: 1994-023614/199403
Valve for vessel contg. easily vaporising liquids e.g. in petrochemical industry - has inlet valve made in form of hollow cavity having conical collar and outlet valve located in inlet valve and made like an axle.
Patent Assignee: MAGIRKO A A (MAGI-I)
Inventor: KABANOV V I; MAGIRKO A A; MUSALEV M A
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
SU 1760332	A1	19920907	SU 4815574	A	19900418	199403	B

Priority Applications (No Type Date): SU 4815574 A 19900418
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
SU 1760332	A1		4	G01F-001/34	

Abstract (Basic): SU 1760332 A

The valve includes cylindrical hollow object casing (1), undersprung inlet valve (4) with conical collar (5) and outlet valve (8) with conical collar (11). The inlet valve (4) has fire safety grid (3). Outlet valve (8) made like axle has grid (9) with cover (10), but on the other side has movable relative to axle conical collar (11) with contacts (15, 16).

Contacts (17, 18) are attached to axle and also accommodates flow rate (liq.) converter (12) in form of bent in two **fibre - optical** light-guide, with one end coupled to light source (13) and the other end to light analyser (14). Contact (17) is connected to **power source** (19) output, the other output of which is connected input of switching unit (20) connected by first output to level signalling unit (21); and by the second through switching unit of light source (22) to contact (18) of **axle** (2). Extra output of **light** source (22) connection unit is connected to light source (13).

USE - For measuring amount of vapour escaping from vessel of easily vaporising liquids and for signalling limiting level of liq. poured into vessel. Applicable in petrochemical industry particularly for regulating pressure in vessels and measuring amount of vaporised liq. Bul.33/7.9.92

Dwg.1/1
Derwent Class: Q66; S02
International Patent Class (Main): G01F-001/34
International Patent Class (Additional): F16K-015/14

14/7/14 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX

008888991 **Image available**
WPI Acc No: 1992-016260/199202
Fibre - optic **remote angular position sensor with polarisation track - has interaction between code** wheel **and** light **beams resulting in**

composite light beam being encoded as function of angular position
Patent Assignee: US SEC OF NAVY (USNA)
Inventor: BRININSTOO M R; GARRETT S L; NEWMASTER J T
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5073711	A	19911217	US 90583778	A	19900917	199202	B

Priority Applications (No Type Date): US 90583778 A 19900917; US 90583778 A 19900917

Abstract (Basic): US 5073711 A

The sensor remotely detects an angular position of a shaft rotatable within a frame. A device generates collimated first, second, third, and polarised optical beams. A device positioned proximate to the first device receives and combines the first, second, third, and polarised optical beams into a composite optical beam having an intensity. A code wheel is fixedly mounted to the shaft and interposed between the first and second devices.

The code wheel includes first, second, and third channel mask patterns and a polarising filter positioned to transect the first, second, third and polarised optical beams, respectively. Interaction between the code **wheel** and the **light** beams results in the composite light beam being encoded such that the angular position of the wheel is functionally related to the intensity of the composite optical beam. The sensor further includes third means operably coupled to receive the composite optical beam for providing an output corresponding to the angular position of the code wheel.

USE/ADVANTAGE Remotely piloted **vehicles** . Improved reliability. (11pp Dwg.No.1/5)

Derwent Class: S02; W05; X25
International Patent Class (Additional): G01D-005/30

14/7/15 (Item 10 from file: 350)
DIALOG(R)File 350:Derwent WPIX
(c) 2005 Thomson Derwent. All rts. reserv.

008857613 **Image available**
WPI Acc No: 1991-361634/199149
Aquarium ornament lamp source - has motor operated by power supply **to drive colour filter** wheel , **providing variable** lighting **effect**
Patent Assignee: HWANG S (HWAN-I)
Inventor: HWANG S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 5067059	A	19911119	US 91696867	A	19910508	199149	B

Priority Applications (No Type Date): US 91696867 A 19910508

Abstract (Basic): US 5067059 A

The aquarium ornament lamp source is comprised of an **optical fibre** unit and a lamp source unit. The **optical fibre** unit is fastened inside an aquarium and comprised of multiple optical fibres, having one end tied up together forming into a light ray input terminal and an opposite end loosely arranged into light ray output terminals.

The lamp source unit is attached to the outside of the aquarium to match with the **optical fibre** unit, which comprises a base plate having a colour filter wheel pivoted at the top and driven by a motor

to rotate, with a light source set therein at the centre. When the colour filter **wheel** is rotated, **light** rays from the light source penetrate through the colour filter **wheel** into the **light** ray input terminal of the **optical fibre** unit to produce variable lighting effect on the artificial landscape of the aquarium through the light ray output terminals.

USE - Aquarium ornament lamp source which produces variable lighting effect to decorate an aquarium. (5pp Dwg.No.1/2

Derwent Class: Q71; V07; X26; X27
International Patent Class (Additional): F21V-033/00

14/7/16 (Item 11 from file: 350)
DIALOG(R)File 350:Derwent WPIX

004681594
WPI Acc No: 1986-184936/198629

Illuminatable device for setting controlled variable - has two fibre - optic **light guides, first illuminating symbols on front wall of housing, second on circumferential wall of regulating wheel**

Patent Assignee: AUDI AG (NSUM); HELAG-ELECTRONIC GMBH (HELA-N); HELAG-ELECTRONIC GM (HELA-N)
Inventor: HENNINGER H; VOLLRATH J
Number of Countries: 004 Number of Patents: 006
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2169739	A	19860716	GB 86520	A	19860110	198629	B
DE 3500747	A	19860717	DE 3500747	A	19850111	198630	
FR 2580423	A	19861017				198648	
GB 2169739	B	19890607				198923	
IT 1188250	B	19880107				199045	
DE 3500747	C2	19940811	DE 3500747	A	19850111	199430	

Priority Applications (No Type Date): DE 3500747 A 19850111
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2169739	A		9		
DE 3500747	C2		9	H01C-001/04	

Abstract (Basic): GB 2169739 B

The device comprises a housing (1) and a rotatably mounted regulating wheel (6). On the front wall (4) of the housing and on the circumferential wall (5) of the regulating wheel, there are symbols (7,8,9) to identify the controlled variables of the wheel. In the housing (1) there is provided a **fibre - optical** light guide which is irradiated by a single light source and which conducts the light firstly to the symbols (7,8) on the front wall (4) and secondly to the regulating wheel (6).

In the regulating wheel (6) there is provided an annular second light guide which receives the light from the corresp. branch of the first guide and t-ansmits it to the symbols (9) on the circumferential wall of the regulating wheel.

USE/ADVANTAGE - Indicating function of a control element, e.g. up-down **car** headlamp movement. Both symbols on front and on circumferential wall are illuminated. (9pp)

Abstract (Equivalent): GB 2169739 B

An illuminatable device for setting a controlled variable, comprising a housing, a light source arranged in the housing, a regulating wheel which is rotatably mounted in thehousingand which

projects with part of its circumferential surface through an opening in an end wall of the housing and comprising symbols arranged on the end wall and circumferential wall to identify the controlled variables of the regulating wheel, the symbols which are arranged on the end wall being illuminated by light which is directed from the light source to the symbols by way of light guides, wherein there is provided inside the housing and behind the end wall a first light guide which is irradiated by a single bulb and which directs the light via branches from the housing and from the rear side of the end wall, on the one hand, to the symbols on the end wall of the housing and, on the other hand, to the regulating **wheel** , a second **light** guide being arranged inside the regulating wheel and arranged so as to be rotatable with this **wheel** , which second **light** guide receives the light from the corresponding branch of the first light guide and transmits it from the inner side of the regulating wheel to the symbols on the circumferential wall of the regulating wheel, and the branch of the first light guide which is associated with the regulating wheel ends in a ring segment and the second light guide is in the form of a ring which is coaxial with this segment.

Derwent Class: P81; P85; V01; V07; X22
International Patent Class (Main): H01C-001/04
International Patent Class (Additional): G02B-006/24; G09F-013/18; G12B-011/00; H01C-010/06; H01H-009/18

14/7/17 (Item 12 from file: 350)
DIALOG(R)File 350:Derwent WPIX

004506469
WPI Acc No: 1986-009813/198602
Optical switch device for vehicle **steering wheel - uses switches and** optical fibre **from transmit light signals from control unit fixed to** vehicle **to receiver**
Patent Assignee: HONDA GIKEN KOGYO KK (HOND); TOYO DENSO KK (TODE-N)
Inventor: MOHRI M; OJI N; TAKAHASHI F; TSUBATA H
Number of Countries: 006 Number of Patents: 008
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
GB 2161338	A	19860108	GB 8516686	A	19850602	198602	B
DE 3524140	A	19860206	DE 3524140	A	19850705	198607	
FR 2567082	A	19860110				198609	
JP 61018540	A	19860127	JP 84140054	A	19840706	198610	
US 4672214	A	19870609	US 85751607	A	19850703	198725	
GB 2161338	B	19871202	GB 8516686	A	19850702	198748	
CA 1246125	A	19881206				198902	
DE 3524140	C	19890302				198909	

Priority Applications (No Type Date): JP 84140054 A 19840706
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
GB 2161338	A		10		

Abstract (Basic): GB 2161338 A

Optical signals transmitted to the boss (13) of a **vehicle** steering wheel (100) are used to control **vehicle** functions such as cruise control, horn and radio in response to actuation of switches (19,22,103). Light signals which may be wavelength or time division multiplexed are generated in a control unit (33) fixed to the **vehicle** body and transmitted (23) via switches (19) in the boss to a receiver

(26). Actuation of switches (19) interrupts passage of the light signals to effect control of the **vehicle** functions.

The boss is held stationary by gearing and the light signals are conducted (28) around portions of the steering **wheel** which cut across the **light** path as it is rotated.

ADVANTAGE - Permits the durability of an optical signal transmission line to be raised without reducing the efficiency of light transmission of the optical signal transmission line

Abstract (Equivalent): GB 2161338 B

A steering switch device in a **vehicle** including a **vehicle** body, a steering wheel rotatably attached to the **vehicle** body, and an electric load mounted on the **vehicle** body; the switch device comprising a control means for providing the electric load with a drive control signal, this control means being secured to the **vehicle** body, and a switch means for providing the control means with an operation signal, this switch means being arranged in the vicinity of the steering **wheel** ; the control means comprising a **light** source means for providing an optical signal and a light-receiving means; the switch means comprising a light-conductive path having a light-admitting entry for receiving the optical signal from the light source means and a light-projecting exit for sending the optical signal to the light-receiving means, and an optical switch provided on the light-conductive path, this optical switch being adapted to pass and interrupt the optical signal; the control means being adapted to feed the electric load with the drive control signal in accordance with the state of the optical signal as transmitted from the switch means to the light-receiving means; and the switch means being stationary relative to the **vehicle** body irrespective of rotation of the steering wheel.s

Abstract (Equivalent): US 4672214 A

A steering optical switch device for a **vehicle** having a **vehicle** body, a steering wheel (100) rotatably attached and an electrical load mounted on the body. The steering switch device comprises a controller for providing the electrical load with a drive control signal, secured to the body and constituted with a light source for providing an optical signal and a light-receiver.

A switch provides the control with an operational signal, the switch being arranged in the vicinity of the steering **wheel** and constituted with a **light** -conductive path (27) (**fibre optic**) for conducting the optical signal from the light source to the light-receiver. An optical switch (19,20) is provided in the light-conductive path. The switch is stationary relative to the **vehicle** body irrespective of rotation of the steering wheel. (pp)

Derwent Class: P81; Q13; Q17; V07; W02; W05; X22

International Patent Class (Additional): B60K-037/06; B60R-016/02; G02B-027/00; H01H-013/00; H01H-035/00; H04B-009/00

14/7/18 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

003903670

WPI Acc No: 1984-049215/198408

Motor vehicle **wheel illumination and reflective system - has reflective surface on** wheel **which** has light **bounced off it from source on bodywork which transmits over** fibre - optic **waveguide to wheel**

Patent Assignee: PAPADAKIS A M (PAPA-I)

Inventor: PAPADAKIS A M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4430692	A	19840207	US 81287236	A	19810727	198408	B

Priority Applications (No Type Date): US 81287236 A 19810727
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4430692	A		10		

Abstract (Basic): US 4430692 A

An automotive **vehicle** having a rotatable **wheel** having a **light** reflective surface. A light source mounted on the **vehicle** has first fixed light transmission devices associated with the light source adapted to receive light from the source and transmits the light to a position proximate to but spaced from, a rotatable mount **wheel** . A second **light** transmission device is mounted on and rotatable with the wheel mount.

The light emitting and receiving ends on the respective first and -econd light transmission devices consist of discrete separate sets, disposed spaced from one another, and adapted to transmit **light** between them as the **wheel** rotates with respect to the **vehicle** . The reflective surface on the wheel produces a resultant aesthetically pleasing visual light illumination effect from the reflective surface.

1/9

Derwent Class: Q71; X22
International Patent Class (Additional): F21V-007/04

14/7/19 (Item 14 from file: 350)
DIALOG(R)File 350:Derwent WPIX

002298070
WPI Acc No: 1980-A4502C/198002
Flat tyre detector for vehicle **- has electronic circuit receiving** light **reflected from inside surface of** tyre
Patent Assignee: FIRESTONE TIRE & RUBBER CO (FIRE)
Inventor: CLAXTON W E
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
US 4180794	A	19791225				198002	B

Priority Applications (No Type Date): US 78958477 A 19781107

Abstract (Basic): US 4180794 A

Light from a source, which may be a standard vehicular lamp conveniently mounted under the hood of the **vehicle** , is transmitted to the area of the **vehicle** wheel by a **fibre optic** transmission line (15). Transmission line (15) is mounted in, and extends through stationary plate (16), which could be the splash plate of the **vehicle** and terminates to focus light between plate (16) and rotatable mounting plate (12). If necessary, a lens could be provided at the end of line (15).

A second **fibre optic** transmission line (17) extends through rim (11) and plate (12). The light picked up by line (17) from line (15) once each revolution is transmitted to the inside of the tyre (10) through rim (11).

Derwent Class: W05
International Patent Class (Additional): G08B-021/00

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le 122:Harvard Business Review 1971-2005/Mar
         (c) 2005 Harvard Business Review
File 444:New England Journal of Med. 1985-2005/Mar W3
         (c) 2005 Mass. Med. Soc.
File 482:Newsweek 2000-2005/Mar 23
         (c) 2005 Newsweek, Inc.
File 619:Asia Intelligence Wire 1995-2005/Mar 23
         (c) 2005 Fin. Times Ltd
File 622:EIU Magazines 2000-2004/Mar 20
         (c) 2004 EIU Magazines
File 624:McGraw-Hill Publications 1985-2005/Mar 24
         (c) 2005 McGraw-Hill Co. Inc
File 635:Business Dateline(R) 1985-2005/Mar 23
         (c) 2005 ProQuest Info&Learning
File 646:Consumer Reports 1982-2005/Mar
         (c) 2005 Consumer Union
File 647:CMP  Computer Fulltext 1988-2005/Feb W4
         (c) 2005 CMP Media, LLC
File 674:Computer News Fulltext 1989-2005/Mar W3
         (c) 2005 IDG Communications
File 696:DIALOG Telecom. Newsletters 1995-2005/Mar 23
         (c) 2005 The Dialog Corp.
File 748:Asia/Pac Bus. Jrnls 1994-2005/Mar 21
         (c) 2005 The Dialog Corporation
File 781:ProQuest Newsstand 1998-2005/Mar 24
         (c) 2005 ProQuest Info&Learning

Set     Items   Description
S1    1569413   LUMINESC? OR GLOW? OR LIGHT? OR FLOURESCENT?
S2      11359   AXLE?
S3     525446   WHEEL? OR TIRE OR TYRE OR TIRES
S4      76013   POWER(2N)(SUPPLY OR SOURCE)
S5      76280   (FIBER OR FIBRE)(2N)OPTIC?
S6     465623   CABLE OR CABLES OR CORD OR CORDS
S7       6384   S1(6N)(S2 OR S3)
S8         64   S1(6N)S2(6N)S3
S9         20   S8 NOT LIGHT
S10         0   S9(2S)S5(7N)(S5 OR S6)
S11         0   S9(2S)S4(7N)(S5 OR S6)
S12         0   S8(10N)(S5 OR S6)
S13    127019   LUMINESC? OR GLOW? OR FLOURESCENT? OR ILLUMINAT?
S14         9   S13(7N)(S2 OR S3)(7N)(S5 OR S6)
S15   2319342   14
S16   4370667   PD=>20031126
S17   1877752   14 NOT PD=>20031126
S18         8   S14 NOT PD=>20031126
?
```

18/3,K/1 (Item 1 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications

01139487
HUNTSMAN CANCER CENTER
Intermountain Contractor, Vol. 68, No. 12, Pg 24
December, 1999
JOURNAL CODE: IC
SECTION HEADING: FEATURES: BEST OF UTAH: PROJECT OF THE YEAR ISSN: 0020-7164
WORD COUNT: 645

TEXT:

... a glass tower comprising five floors of glass, backlit with 2000 ft. of fiber optic **cable** and 21 **illuminators** with four-color color **wheels** that are synchronized for continuous color throughout.

The construction of the Huntsman Cancer Center took...

18/3,K/2 (Item 2 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications

01069236
Beam me up, Scotty
By Rita F. Catinella
Architectural Record, Vol. 189, No. 2, Pg 180
February, 2000
JOURNAL CODE: AR
SECTION HEADING: Lighting Briefs ISSN: 0003-858X
WORD COUNT: 76

TEXT:

... diffuses light evenly over the fixture surface and projects light down when suspended by a **fiber - optic cable** . When teamed up with the remote **illuminator** , color **wheel** , and controls, the fixture can be programmed to **glow** over six colors. It can be used as an interior or exterior pendant mount. 210...

18/3,K/3 (Item 3 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications

01013292
Colorful Effects Create Magic Aboard Disney's First Cruise Ship
by William Weathersby, Jr.
Architectural Record, Vol. 76, No. 5, Pg 299
May, 1999
JOURNAL CODE: AR
SECTION HEADING: LIGHTING PROJECTS ISSN: 0003-858X
WORD COUNT: 1,809

TEXT:

... a swirl pattern of orange and red, while the paintbrush bristle

``capitals'' of the columns **glow** blue via end- and side-emitting **fiber optics** . Over the course of the meal, color **wheels** alter the hues of the fiber-optic details of the columns and oversize palates on...

18/3,K/4 (Item 4 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications

01013200
Optic saucer
Architectural Record, Vol. 76, No. 5, Pg 318
May, 1999
JOURNAL CODE: AR
SECTION HEADING: LIGHTING RESOURCES: LIGHTING BRIEFS ISSN: 0003-858X
WORD COUNT: 73

TEXT:

... fiber-optic fixture for residential and commercial decorative ceiling-lighting applications. A single remote-source **illuminator** with a high-intensity halogen or metal-halide lamp can power several fixtures. Optional standard or custom color **wheels** inside the **illuminator** can add on-demand color changes. 800/327-7877. Fiberstars, Fremont, Calif.

18/3,K/5 (Item 5 from file: 624)
DIALOG(R)File 624:McGraw-Hill Publications

0666504
The Latest on Fiber-optic Lighting Technologies: More than ever before, new materials and better sources are making lighting with fiber optics an efficient, more practical alternative to conventional light sources.

By Lindsay Audin
Architectural Record, Pg 16
May, 1995
JOURNAL CODE: AR
SECTION HEADING: Record Lighting: Technology ISSN: 0003-858X
WORD COUNT: 1,545

TEXT:

... museum pieces, and delicate materials such as silk. The Mona Lisa, for example, is now **illuminated** through **fiber optics** .

Neat special effects

By placing a color **wheel** between the **illuminator** and the fibers, it is possible to continuously change the colors emitted from the ends...

18/3,K/6 (Item 1 from file: 635)
DIALOG(R)File 635:Business Dateline(R)

2484373 435344331
The View from the top Oak View launched southwest Omaha boom Shopping shifts Oak View, at a glance
Alexander, Deborah
Omaha World - Herald p1.d
Nov 1, 2003
WORD COUNT: 1,404
DATELINE: Omaha Nebraska

TEXT:

...similar to Sunland Mall, another Simon property, which opened in 1988 in El Paso, Texas.

Fiber - optic lines, which **glow** like colored pinstripes, outlined the ceiling lattice and storefronts.

Vanna White, of the " **Wheel** of Fortune" television game show, was a guest at the October 1991 grand opening, along...

18/3,K/7 (Item 1 from file: 781)
DIALOG(R)File 781:ProQuest Newsstand

09631215 TUL112501008 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Artificial alternatives abound
Debbie Blossom CREDIT:World Staff Writer
Tulsa World, FINAL HOME ED, P 1
Sunday, November 25, 2001
DOCUMENT TYPE: Newspaper, Medium LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT SECTION HEADING: BUSINESS; BUSINESS/FINANCE/ECONOMY
Word Count: 503

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...of
what look like fishing line are threaded throughout the tree, giving it a soft **glow** . A **fiber optic** tree can look even more festive under the influence of a rotating color **wheel** .

Cohlmia said homeowners often decorate with more than one tree, so retailers must be able...

18/3,K/8 (Item 2 from file: 781)
DIALOG(R)File 781:ProQuest Newsstand

02088791 BLM281954 (USE FORMAT 7 OR 9 FOR FULLTEXT)
Fiber optics illuminate outside lights market
JAMES DULLEY
Pantagraph Bloomington, IL
Sunday, September 7, 1997
DOCUMENT TYPE: Newspaper, Small LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT
Word Count: 612

(USE FORMAT 7 OR 9 FOR FULLTEXT)

...or a pool where electricity is a hazard. These kits use special 18-strand side- **glow fiber optic cables** . The entire length of the **cable glows** .

For a unique effect, install a slowly rotating color **wheel** in the main unit. As this rotates past the main light bulb, the color in...

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? SHOW FILES;DS
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Set     Items   Description
S1    1569413   LUMINESC? OR GLOW? OR LIGHT? OR FLOURESCENT?
S2      11359   AXLE?
S3     525446   WHEEL? OR TIRE OR TYRE OR TIRES
S4      76013   POWER(2N)(SUPPLY OR SOURCE)
S5      76280   (FIBER OR FIBRE)(2N)OPTIC?
S6     465623   CABLE OR CABLES OR CORD OR CORDS
S7       6384   S1(6N)(S2 OR S3)
S8         64   S1(6N)S2(6N)S3
S9         20   S8 NOT LIGHT
S10         0   S9(2S)S5(7N)(S5 OR S6)
S11         0   S9(2S)S4(7N)(S5 OR S6)
S12         0   S8(10N)(S5 OR S6)
S13    127019   LUMINESC? OR GLOW? OR FLOURESCENT? OR ILLUMINAT?
S14         9   S13(7N)(S2 OR S3)(7N)(S5 OR S6)
S15   2319342   14
S16   4370667   PD=>20031126
S17   1877752   14 NOT PD=>20031126
S18         8   S14 NOT PD=>20031126
?
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